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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/730,889	12/10/2003	Tetsurou Harada	ASAIN0134	5149	
24203	7590 02/24/2005	EXAMINER			
GRIFFIN & SZIPL, PC SUITE PH-1 2300 NINTH STREET, SOUTH ARLINGTON, VA 22204			LE, JO	LE, JOHN H	
			ART UNIT	PAPER NUMBER	
			2863		
			DATE MAILED: 02/24/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

•		CT			
	Application No.	Applicant(s)			
	10/730,889	HARADA ET AL.			
Office Action Summary	Examiner	Art Unit			
	John H. Le	2863			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status	•				
1)⊠ Responsive to communication(s) filed on <u>25 January 2005</u> .					
 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the ments is 					
					closed in accordance with the practice under E
Disposition of Claims					
4) ☐ Claim(s) 1-4 and 6-8 is/are pending in the appl 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 and 6-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examine 10)☑ The drawing(s) filed on 10 December 2003 is/a Applicant may not request that any objection to the c Replacement drawing sheet(s) including the correction 11)☐ The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)⊡ objector drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te atent Application (PTO-152)			

Application/Control Number: 10/730,889 Page 2

Art Unit: 2863

Response to Amendment

1. This office action is in response to applicant's amendment received on 01/25/2005.

Claims 1 and 7 have been amended.

Claim 5 has been cancelled.

Claim 8 has been added.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-4 and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hu et al. (USP 5,929,324) in view of Karlon (USP 5,069,880) and Dosoretz et al. (USP 5,604,298).

Regarding claims 1, 3, 4, 7, and 8, Hu et al. disclose a method for inspecting leakage of a container (e.g. Col.5, lines 22-34, Col.6, lines 11-18), comprising: an ozone gas addition step of adding ozone gas to a higher pressure side of the inside and the outside of the container (e.g. Col.4, lines 1-20, Col.9, lines 9-34); an ozone concentration detection step of measuring an ozone concentration of a lower pressure side of the inside and the outside of the container (e.g. Col.4, lines 53-66); and a leakage determination step of determining presence of the leakage of the container based on a change in the ozone concentration (e.g. Col.7, lines 3-29).

Art Unit: 2863

Hu et al. fail to disclose a differential pressure generation step of generating a differential pressure between the inside and the outside of a container; and the leakage determination step has an ozone concentration comparison step of calculating a concentration difference between the ozone concentration and a predetermined ozone concentration, and an ozone concentration determination step of determining presence of leakage when the concentration difference is larger than a predetermined value.

Karlon discloses a differential pressure generation step of generating a differential pressure between the inside and the outside of a container; an ozone gas addition step of adding ozone gas to a higher pressure side of the inside and the outside of the container (e.g. Col.6, line 58-Col.7, line 11); an ozone concentration detection step of measuring an ozone concentration of a lower pressure side of the inside and the outside of the container (e.g. Col.9, line 53-Col.10, line 6, Col.10, lines 50-51).

Regarding claims 2 and 7, Karon discloses the differential pressure generation step has a container storage step of storing the container in a storage container (e.g. Col.5, lines 50-67), and a container pressurization/pressure reduction step of operating one of pressurization and pressure reduction for one of the container and the storage container (e.g. Col.8, lines 38-51).

Regarding claim 6, Karon discloses the container is used as a container in which liquid is sealed (e.g. Col.3, lines 25-33).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to inform a differential pressure generation step of generating a

Application/Control Number: 10/730,889 Page 4

Art Unit: 2863

differential pressure between the inside and the outside of a container as taught by Karlon in a method for inspecting leakage of Hu et al. for the purpose of providing an ozone generation system that teaches the method to employ very high pressure within the generator to produce ozone using less energy, up to 50% less, dependent on pressure and temperature (Karlon, Col.5, lines 6-10).

Dosoretz et al. disclose the leakage determination step has an ozone concentration comparison step of calculating a concentration difference between the ozone concentration and a predetermined ozone concentration, and an ozone concentration determination step of determining presence of leakage when the concentration difference is larger than a predetermined value (Col.2, lines 55-65, Col.4, lines 35-52).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to inform the leakage determination step has an ozone concentration comparison step of calculating a concentration difference between the ozone concentration and a predetermined ozone concentration, and an ozone concentration determination step of determining presence of leakage when the concentration difference is larger than a predetermined value as taught by Dosoretz et al. in a method for inspecting leakage of Hu et al. in view of Karlon for the purpose of providing an apparatus and a method for detecting ozone leak.

Conclusion

4. Specifically Dosoretz et al. has been added to second ground of rejection.

Contact Information

Application/Control Number: 10/730,889

Art Unit: 2863

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John H Le whose telephone number is 571-272-2275. The examiner can normally be reached on 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E Barlow can be reached on 571-272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John H. Le

Patent Examiner-Group 2863

February 11, 2005

Technology Center 2800

Page 5